Number   Nick   Search Text   2   2   2   2   2   2   2   2   2	(* )	17- 4-0	Coarch Tout	DD	Time stamp
3   345/161 or 345/156 or 345/157 or 463/38].ccls. and "rotary knob"   1045/151 or 345/157 or 463/38].ccls. and "rotary knob"   2004/03/21 18:36	L Number			DB	
33   345/161 or 345/155 or 345/157 or 463/391 ccls and "rotary knob"   US-PAPUS   US-P	],1	2	"Joystick knob" and "rotary knob"		2004/03/21 18:29
463/38).ccls. and "rotary knob"   US-PGPUB	l _		1245/262 245/256 245/255		2004/02/21 10 20
1	1.5	33			2004/03/21 18:29
4 (43)36).ccla. and "rotary knob" and joystick   US-PGPUB   US-PGP					
2	3	17			2004/03/21 18:36
1				US-PGPUB	
Second   Second Secon	4	2	("6154201" or "6128006").pn.	USPAT;	2004/03/21 19:09
Safe				US-PGPUB	•
2004/03/21 19:16   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAGUB   SPAT;   SPAGUB   SPAT;   SPAGUB   SPAT;   SPAGUB   SPAT;	5	220	345/184.ccls.	USPAT;	2004/03/21 19:12
7				US-PGPUB	
7	6	585	345/161.ccls.	USPAT:	2004/03/21 19:16
384   joystick and feedback and actuator and rotary   1987AT;   1987AT;   1987AT;   1987AT;   1987AT;   1987AT;   1987AT;   1998AT;				US-PGPUB	
384   joystick and feedback and actuator and rotary   1987AT;   1987AT;   1987AT;   1987AT;   1987AT;   1987AT;   1987AT;   1998AT;	7	89	(701/1 or 701/36).ccls. and joystick	USPAT:	2004/03/21 19:16
384   joystick and feedback and actuator and votary   votary dial" with joystick   USPAT;	'		( , , , , , , , , , , , , , , , , , , ,	1	
Totary dial" with joystick USPAT; USP	1_	384	iovstick and feedback and actuator and	1	2004/03/21 18:25
Totary dial" with joystick		501	5	1	2001, 03, 22 10:23
Trotary dial".ab. and joystick.ab.   US-PGPUB   US-PG	_	,		1	2002/09/21 18.52
0	-	·	i totaly dial with joystick		2003/03/21 18:33
Second actuator   Second act			Harrier diel Halband derentiele als	1	2002/00/21 10 54
36    "rotary".ab. and joystick.ab.	-	٥	"rotary dial".ab. and joystick.ab.	1 .	2003/09/21 18:54
Second actuator   Second act					/ /
2003/09/21 19:28   2003/09/21 19:28   2003/09/21 19:34   2003/09/22 11:57   2003/09/22	-	36	"rotary".ab. and joystick.ab.	1	2003/09/21 19:08
1   345/161.ccls. and feedback and rotary and acuator and (sensor or detector)   15   345/161.ccls. and (feedback with rotary)   US-PGPUB   U					
345/161.ccls. and feedback and rotary and acuator and cleansor or detector)   USPAT; US-PGPUB   USPAT; USPAT; US-PGPUB   USPAT; USPA	[ <del>-</del>	540	345/161.ccls.	1	2003/09/21 19:28
acuator and (sensor or detector)   US-PGPUB   US-PGPU	1			US-PGPUB	
acuator and (sensor or detector)   US-PGPUB   US-PGPU	-	1		USPAT;	2003/09/21 19:34
372			acuator and (sensor or detector)	US-PGPUB	
372	-	15	345/161.ccls. and (feedback with rotary)	USPAT;	2003/09/21 19:34
372   joystick.ti.   USPAT;				1 '	' ' ' '
188	_	372	joystick.ti.	1	2003/09/22 11:57
188   Joystick.ti. or 345/161.ccls.) and (haptic or feedback)   107   (joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator)   USPAT; US-PGPUB   USPAT; US-PGPUB   USPAT; USPGPUB   USPAT; USP			J-1	, ,	
or feedback) (joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator) (Joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator) (Joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator) (Joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator) (Joystick.ti. or 345/161.ccls.) and (haptic or feedback) uspar; (Joystick.ti. or 345/161.ccls.) and (haptic or feedback) uspar; (Joystick.ti. or 345/161.ccls.) and (haptic Uspar; (Joystick.ti. or 345/161.ccls.) and (maptic Uspar; (Joystick.ti. or 345/161.ccls.) and (feedback or haptic) and rotary and joystick or haptic) (Joystick.ti. or 345/161.ccls.) and (feedback or haptic) and (feedback or haptic) and rotary and joystick and (feedback or haptic) (Joystick.ti. or 345/161.ccls.) and (feedback or haptic) uspar; (Joystick.ti. or 345/161.ccls.) uspar; (Joystick.ti. or 345/161.ccls.) u	_	188	(joystick ti or 345/161 ccls ) and (hantic	4	2003/09/22 11:58
107    (joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator)   USPAT; US-PGPUB   USPAT; USPAUD; USPAT; US		100			2003,03,22 11.30
or feedback) and (motor or acuator) (joystick.ti. or 345/161.ccls.) and (haptic or feedback) and (motor or acuator) uspAT; (joystick adj knob  50 joystick adj knob  41 dial adj joystick  497 "jog dial"  9 "joystick dial"  1 "rotary joystick"  1 "rotary knob"  1 1 "rotary knob"  1 1 "rotary knob" and feedback  1 1 "rotary knob" and feedback  1 1 "rotary knob" and feedback  1 1 "soff414".PN.  1 1 "6067414".PN.  1 1 "5661253".PN.  1 1 "5589828".PN.  1 1 "\$589828".PN.  1 1 "\$589828".PN.  1 1 "4701629".PN.  1 1 "4701629".PN.  1 1 "soson actuator" and (feedback or haptic) and rotary and joystick and knob and feedback or haptic) and rotary and joystick and knob  1 "socond actuator" and (feedback or haptic) and rotary and joystick and knob  1 "socond actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  1 "rotary actuator" and (feedback or haptic) and rotary and joystick and knob  2 003/09/22 15:10 2 0203/09/22 15:12 2 0203/09/22 16:49 2 0203/09/23 12:31 2 0203/09/23 12:31 2 0203/09/23 12:31 2 0203/09/23 12:41	_	107	,	1	2002/00/22 11.50
38	-	107			2003/09/22 11:58
or feedback) and (motor or acuator) and "six degrees" joystick adj knob  dial adj joystick  dial adj joystick  41 dial adj joystick  497 "jog dial"  "jog dial"  "joystick dial"  "os-PGPUB USPAT; US-PGPUB USPAT;		20			0000/00/00 45 05
degrees	-	38		· ·	2003/09/22 15:06
- 50 joystick adj knob  41 dial adj joystick  497 "jog dial"  497 "jog dial"  9 "joystick dial"  1 "rotary joystick"  1 1 "rotary knob"  1 1 "rotary knob"  1 1 "rotary knob"  1 1 "rotary knob" and feedback  1 1 "rotary knob" and feedback  1 1 "foof6414".PN.  1 1 "6076414".PN.  1 1 "6076414".PN.  1 1 "5589288".PN.  1 1 "5589288".PN.  1 1 "558928".PN.  1 1 "s33705".PN.  1 1 "4701629".PN.  2 1 "accond actuator" and (feedback or haptic) and rotary and joystick adj knob  2 2 "second actuator" and (feedback or haptic) and rotary and joystick adj yoystick and knob adj yoystick and knob adj yoystick and knob adj yoystick adj yoystick and knob adj yoystick adj yoystick and knob adj yoystick and knob adj yoystick and kno				US-PGPUB	
Second actuator" and (feedback or haptic)   US-PGPUB   USPAT;   USPAT   USPAT   2003/09/22 15:18   USPAT;   USPAT   2003/09/22 16:46   USPAT;   USPAT   2003/09/22 16:49   USPAT;   USPAT					
- 41 dial adj joystick USPAT; US-PCPUB USPAT 2003/09/22 15:18 USPAT 2003/09/22 16:46 USPAT 2003/09/22 16:49 USPAT; USPAT 2003/09/22 16:49 USPAT; USPAT 2003/09/22 16:49 USPAT; USPAT 2003/09/22 16:49 USPAT; USPCPUB USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPCPUB USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPCPUB USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPCPUB USPAT; USPA	-	50	joystick adj knob	1	2003/09/22 15:09
Second actuator" and (feedback or haptic)   US-PGPUB   USPAT;   US-PGPUB   USPAT   USPAT   2003/09/22 15:18   USPAT   2003/09/22 16:46   USPAT   2003/09/22 16:48   USPAT   2003/09/22 16:48   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT;   USPAT;   2003/09/22 16:49   USPAT;   USPAT;   USPAT;   2003/09/22 16:49   USPAT;   USPAT;   USPAT;   USPAT;   2003/09/22 16:49   USPAT;   U				US-PGPUB	
- 497 "jog dial"  - 9 "joystick dial"  - 1 "rotary joystick"  - 1649 "rotary knob"  - 183 "rotary knob" and feedback  - 22 "rotary knob" and feedback and joystick  - 1 "6076414".PN.  - 1 "6067492".PN.  - 1 "5661253".PN.  - 1 "5589828".PN.  - 1 "4271728".PN.  - 1 "4271728".PN.  - 1 "second actuator" and (feedback or haptic) and rotary and joystick and knob  - 35 "second actuator" and (feedback or haptic) and rotary and joystick and knob  - 36 "rotary and joystick and knob  - 36 "second actuator" and (feedback or haptic) and rotary and joystick and knob  - 37 "rotary actuator" and (feedback or haptic)  - 36 "rotary actuator" and (feedback or haptic)  - 37 "rotary actuator" and (feedback or haptic)  - 38 "rotary actuator" and (feedback or haptic)  - 39 "rotary actuator" and (feedback or haptic)  - 303/09/22 15:18  - 2003/09/22 15:18  - 2003/09/22 15:18  - 2003/09/22 15:18  - 2003/09/22 15:18  - 2003/09/22 15:18  - 2003/09/22 15:18  - 2003/09/22 16:46  - 2003/09/22 16:46  - 2003/09/22 16:46  - 2003/09/22 16:49  - 2003/09/22 16:49  - 2003/09/23 11:51  - 2003/09/23 12:31  - 2003/09/23 12:31  - 2003/09/23 12:41	-	41	dial adj joystick	USPAT;	2003/09/22 15:12
S-PGPUB				US-PGPUB	
- 9 "joystick dial" USPAT; US-PGPUB USPAT 2003/09/22 16:46 USPAT 2003/09/22 16:49 USPAT 2003/09/22 16:49 USPAT 2003/09/22 16:49 USPAT 2003/09/22 16:49 USPAT; US-PGPUB USPAT;	-	497	"jog dial"	USPAT;	2003/09/22 15:14
Totary joystick   US-PGPUB   USPAT;   2003/09/22 15:18   US-PGPUB   USPAT;   USPAT   2003/09/22 16:46   USPAT   2003/09/22 16:48   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT;   2003/09/22 16:49   USPAT;   USPAT   2003/09/22 16:49   USPAT;   USPAT;   2003/09/22 17:22   USPAT;   USPAT;   2003/09/22 17:22   USPAT;   USPAT;   2003/09/23 11:51   USPAT;   2003/09/23 11:51   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:41   USPAT;   2003/09/23 12:4				US-PGPUB	
Totary joystick   US-PGPUB   USPAT;   2003/09/22 15:18   US-PGPUB   USPAT;   USPAT   2003/09/22 16:46   USPAT   2003/09/22 16:48   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT;   2003/09/22 16:49   USPAT;   USPAT   2003/09/22 16:49   USPAT;   USPAT;   2003/09/22 17:22   USPAT;   USPAT;   2003/09/22 17:22   USPAT;   USPAT;   2003/09/23 11:51   USPAT;   2003/09/23 11:51   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:31   USPAT;   2003/09/23 12:41   USPAT;   2003/09/23 12:4	-	9	"joystick dial"	USPAT;	2003/09/22 15:16
Totary joystick   USPAT; US-PGPUB   USPAT   2003/09/22 16:46   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT   2003/09/22 16:49   USPAT; USPAT   2003/09/22 16:49   USPAT; USPA	1	}			
- 1649 "rotary knob" US-PGPUB USPAT; US-PGPUB USPAT 2003/09/22 17:22 US-PGPUB USPAT 2003/09/22 16:46 USPAT 2003/09/22 16:48 USPAT 2003/09/22 16:48 USPAT 2003/09/22 16:49 USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; USPAT; US-PGPUB 2003/09/22 17:22 USPAT; US-PGPUB 2003/09/22 17:22 USPAT; US-PGPUB 2003/09/23 11:50 USPAT; USPAT; US-PGPUB 2003/09/23 11:51 USPAT; US-PGPUB 2003/09/23 12:31 und rotary and joystick and knob US-PGPUB 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; USPAT; US-PGPUB 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; USPAT; US-PGPUB 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; USPAT; US-PGPUB 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; USPAT; US-PGPUB 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; USPAT; 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; USPAT; 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; 2003/09/23 12:31 urotary actuator" and (feedback or haptic) uspat; 2003/09/23 12:41	ļ -	1	"rotary joystick"		2003/09/22 15:18
1649	<u> </u>	]		1	====, ==, ==
183    "rotary knob" and feedback	_	1649	"rotary knob"		2003/09/22 15:10
- 183 "rotary knob" and feedback USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT 2003/09/22 17:22 USPAT 2003/09/22 16:46 USPAT 2003/09/22 16:48 USPAT 2003/09/22 16:49 USPAT; USPAT; 2003/09/22 17:22 USPAT; USPAT; 2003/09/22 17:22 USPAT; 2003/09/23 11:50 and rotary and (feedback or haptic) and rotary and joystick and knob USPAT; 2003/09/23 12:31 and rotary and joystick and knob USPAT; 2003/09/23 12:31 uspat; 2003/09/23 12:41		-5.5			2003, 03, 22 13.16
- 22 "rotary knob" and feedback and joystick US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT 2003/09/22 17:22 US-PGPUB USPAT 2003/09/22 16:46 1 "6067492".PN. USPAT 2003/09/22 16:46 1 "5712660".PN. USPAT 2003/09/22 16:46 1 "5661253".PN. USPAT 2003/09/22 16:46 1 "5589828".PN. USPAT 2003/09/22 16:48 1 "5339705".PN. USPAT 2003/09/22 16:49 1 "4701629".PN. USPAT 2003/09/22 16:49 1 "4701629".PN. USPAT 2003/09/22 16:49 1 "4271728".PN. USPAT 2003/09/22 16:49 1 "4271728".PN. USPAT 2003/09/22 16:49 1 "4271728".PN. USPAT; 2003/09/22 16:49 1 "4271728".PN. USPAT; 2003/09/22 17:22 US-PGPUB USPAT; 2003/09/23 11:50 and rotary and joystick or haptic) and rotary and joystick and knob USPAT; 2003/09/23 12:31 and rotary and joystick and knob US-PGPUB USPAT; 2003/09/23 12:31 and rotary and joystick and knob US-PGPUB USPAT; 2003/09/23 12:31 and rotary and joystick and knob US-PGPUB USPAT; 2003/09/23 12:31 and rotary and joystick and knob US-PGPUB USPAT; 2003/09/23 12:31 and rotary and joystick and knob US-PGPUB USPAT; 2003/09/23 12:41	_	102	"rotary knob" and feedback		2003/09/22 15:10
- 22 "rotary knob" and feedback and joystick USPAT; US-PGPUB - 1 "6076414".PN. USPAT 2003/09/22 16:46 - 1 "6067492".PN. USPAT 2003/09/22 16:46 - 1 "5712660".PN. USPAT 2003/09/22 16:46 - 1 "5661253".PN. USPAT 2003/09/22 16:46 - 1 "5589828".PN. USPAT 2003/09/22 16:46 - 1 "5339705".PN. USPAT 2003/09/22 16:48 - 1 "4701629".PN. USPAT 2003/09/22 16:49 - 1 "4271728".PN. USPAT 2003/09/22 16:49 - 1 "8econd actuator" and (feedback or haptic) and rotary and joystick - 35 "second actuator" and (feedback or haptic) and rotary and joystick and knob - 31 "rotary actuator" and (feedback or haptic) USPAT; 2003/09/23 12:31 - 31 "rotary actuator" and (feedback or haptic) USPAT; 2003/09/23 12:31 - 31 "rotary actuator" and (feedback or haptic) USPAT; 2003/09/23 12:31		103	Total mion and recuper		2003/03/22 13:18
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1 "4271728".PN. 1 5825308.pn. USPAT USPAT; US-PGPUB	-	1	"4701629".PN.	1	
1 5825308.pn. USPAT; US-PGPUB 414 "second actuator" and (feedback or haptic) uSPAT; US-PGPUB and rotary "second actuator" and (feedback or haptic) uSPAT; US-PGPUB and rotary and joystick "us-PGPUB" uSPAT; uS-PGPUB second actuator" and (feedback or haptic) uSPAT; uS-PGPUB and rotary and joystick and knob us-PGPUB and rotary and joystick and knob us-PGPUB rotary actuator" and (feedback or haptic) uSPAT; uS-PGPUB uS-PGPU	-	1			
- 414 "second actuator" and (feedback or haptic) US-PGPUB and rotary "second actuator" and (feedback or haptic) USPAT; US-PGPUB USPAT; US-PGPUB and rotary and joystick "second actuator" and (feedback or haptic) USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB and rotary and joystick and knob US-PGPUB USPAT; US-PGPUB		1			
- 414 "second actuator" and (feedback or haptic) uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; and rotary and joystick us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; and rotary and joystick and knob uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; us-pgpub uspat; u		_	•		,, 1,
and rotary  - 73 "second actuator" and (feedback or haptic) and rotary and joystick  - 35 "second actuator" and (feedback or haptic) and rotary and joystick and knob  - 31 "rotary actuator" and (feedback or haptic) US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB USPAT; 2003/09/23 12:31	<u>-</u>	414	"second actuator" and (feedback or hantic)		2003/09/23 11.50
- 73 "second actuator" and (feedback or haptic) USPAT; and rotary and joystick "second actuator" and (feedback or haptic) USPAT; us-PGPUB and rotary and joystick and knob USPAT; us-PGPUB USPAT; us-PGPUB USPAT; us-PGPUB USPAT; us-PGPUB USPAT; us-PGPUB USPAT; us-PGPUB us-PGP					=====
and rotary and joystick  "second actuator" and (feedback or haptic) and rotary and joystick and knob  "rotary actuator" and (feedback or haptic)  "rotary actuator" and (feedback or haptic)  "SPAT; US-PGPUB USPAT; US-PGPUB	_	. 72		l	2003/09/23 11:51
- 35 "second actuator" and (feedback or haptic) USPAT; 2003/09/23 12:31 and rotary and joystick and knob US-PGPUB - 31 "rotary actuator" and (feedback or haptic) USPAT; 2003/09/23 12:41		, 3		l '	2003/03/23 11:51
and rotary and joystick and knob US-PGPUB "rotary actuator" and (feedback or haptic) USPAT; 2003/09/23 12:41	<u> </u>	25		ſ	1 2002 /02 /22 22 2
- 31 "rotary actuator" and (feedback or haptic) USPAT; 2003/09/23 12:41		35			2003/09/23 12:31
	_	, ,			
and rotary and joystick and knob US-PGPUB	-	31			2003/09/23 12:41
	L		and rotary and joystick and knob	US-PGPUB	

		<del>-</del>		
	0	"rotary actuator" and "second actuator" and	USPAT;	2003/09/23 12:42
		knob and joystick and acutuators	US-PGPUB	
-	18	"rotary actuator" and "second actuator" and	USPAT;	2003/09/23 12:42
_		knob and joystick and actuators	US-PGPUB	į

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